

ABSTRACT OF THE DISCLOSURE

The present invention relates to a digital data
play back apparatus for converting a digital data a
signal read from a recording medium by sampling in a
5 clock cycle, equalizing this digital data to a waveform
which agrees with a partial response class on the basis
of the clock, and detecting data on the basis of the
clock with respect to the equalized signal waveform.
Then, this apparatus detects a timing phase gradient
10 between the equalized signal waveform and the clock,
and controls a clock frequency on the basis of the
detected timing phase gradient.